



LABORATOIRE MODÉLISATION ET
SIMULATION MULTI ÉCHELLE

Sous la co-tutelle de :

CNRS
UNIVERSITÉ GUSTAVE EIFFEL
UPEC - UNIVERSITÉ PARIS-EST CRÉTEIL

SAPEM 2026

Program for November 16–20, 2026

Marne-la-Vallée, France



Programme

Mon 16.nov.2026

Start	End			Venue
10:00	12:00	Registration	Welcome coffee (10:00-11:00)	Amphi Bienvenüe
12:00	12:30	Opening ceremony		Amphi Bienvenüe
12:30	14:00	Opening lunch		Exhibition space (Salle Polyvalente)
SESSION		THEORY AND CHARACTERIZATION		
14:00	14:45	Raymond PANNETON	Methods for characterizing acoustic materials (at macro- and micro- scales)	Amphi Bienvenüe
14:45	15:30	Wiebke DRENCKHAN & Aurélie HOURLIER-FARGETTE	Guiding self-assembly of bubbles to control foam structures	Amphi Bienvenüe
15:30	16:00	Break		Exhibition space (Salle Polyvalente)
16:00	16:20	Quang Vu TRAN	Estimating characteristic lengths by combining direct measurements and the Kozeny-Carman relation	Amphi Bienvenüe
16:20	16:40	Jean-Philippe GROBY	Polology for acoustic absorption by a metaporous surface	Amphi Bienvenüe
16:40	17:00	Dalal ALFOUDARI	The acoustic absorption of a sustainable fibrous materials with a thin nanoporous layer	Amphi Bienvenüe
17:00	17:20	Lucie GALLERAND	Analytical modeling of vibroacoustic response in microperforated cylindrical shells	Amphi Bienvenüe
17:30	18:40	Poster session 180'' presentation, 14 posters	Award of best poster	Exhibition space (Salle Polyvalente)
19:00	21:00	Welcome apéritif + cocktail dinner	included	Exhibition space (Salle Polyvalente)

Tue 17.nov.2026

SESSION		MICRO-STRUCTURE ANALYSIS		
09:00	09:45	Michel BORNERT	Imaging techniques : X-ray for In-situ characterisation	Amphi Bienvenüe
09:45	10:30	Philippe COUSSOT	NMR relaxometry for characterizing structure, phase changes and water transport in multi-scale biobased porous systems	Amphi Bienvenüe
10:30	11:00	Break		Exhibition space (Salle Polyvalente)
11:00	11:20	Keith ATTENBOROUGH	A comparison of structures for broadband sound absorption	Amphi Bienvenüe
11:20	11:40	Fanambinana DELMOTTE	A simple membrane-based acoustic material exhibiting negative	Amphi Bienvenüe
11:40	12:00	Michał NIEDZIELCZYK	Additively manufactured labyrinthine sound absorbers with permeo-elastic effects	Amphi Bienvenüe
12:00	12:20	Anthony CILETTI	Sound absorption of directionally elongated gyroid lattices: Numerical predictions and impedance tube measurements	Amphi Bienvenüe
12:20	13:00	Poster tour	Special poster attendance	Exhibition space (Salle Polyvalente)
13:00	14:30	Lunch	Special poster attendance	Exhibition space (Salle Polyvalente)

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SESSION		MEASUREMENTS TECHNIQUES	
14:30	15:15	Eric BRANDÃO	Measurement techniques for in-situ characterisation
15:15	15:35	Ton STAEL	In situ measurement of sound absorption
15:35	15:55	Jean-Christophe LE ROUX	A compact setup for low frequency absorbing metamaterial performances assessment
15:55	16:15	Maria VUIN	Experimentally verified Biot-JCAL modelling of wool felt
16:15	16:45	Break	
16:45	17:05	Joaquin GARCIA	Image-based morphological characterisation for the direct estimation of JCA non-acoustic parameters in bio-based granular absorbers
17:05	17:25	Anthony CILETTI	Sample half-wave sensitivity in four-microphone characteristic-impedance extraction
17:25	17:45	Fabien CHEVILLOTTE	Machine learning methods for identification and characterization of porous materials
17:45	18:05	Jennifer CELESTE	Benchmarking compact language models for poroacoustic material design
19:30	22:00	Dinner + social activity	
		Included	Restaurant

Wed 18.nov.2026

SESSION		MULTI-PHYSICS: IN-FLOW, THERMAL...	
09:00	09:45	Gwenaël GABARD	Aeroacoustics : Flow effects on porous materials
09:45	10:30	Franck SGARD	Challenges for hearing protection: comfort, vibro-acoustic models, measurements and innovative materials
10:30	11:00	Break	
11:00	11:20	Kévin CARILLO	Passive meta-earplugs incorporating Helmholtz resonators for enhanced hearing protection
11:20	11:40	David FRANCOZ	Edge geometry effects in porous rainbow trapping silencers under low-speed flow
11:40	12:00	Fabien MARCHETTI	Analytical modeling of multi-modal acoustic propagation in ducts with porous treatments
12:00	12:20	Cécile GUIANVARCH	Effects of relative humidity of air on the acoustic propagation in porous media
12:20	12:40	Ozgur Taner TUGUT	Moisture effects on the acoustic performance of a fibrous growing medium for green walls
12:40	14:30	Lunch	
14:30	14:50	Tinhane CHEKAI	Microstructure characterization of hemp shiv packing using x-ray tomography and advanced image analysis for acoustic and thermal predictions
14:50	15:10	Elio DI GIULIO	Open-source 3D-to-2D transport simulations in fibrous porous media
SESSION		META-MATERIALS & NON-CONVENTIONAL	
15:15	16:00	Michael HABERMAN	Coupled mode theory for scattering from porous acoustic waveguides with spatiotemporally modulated boundaries
16:00	16:20	Rémi CORNAGGIA	Well-posed homogenized strain-gradient models for elastodynamics in periodic media
16:20	16:50	Break	
16:50	17:10	Kara HARDY	Gray-Scott pattern classification for acoustic metamaterial design
17:10	17:30	Marco LIZOTTE	Wideband acoustic muffler based on a series of annular Helmholtz resonator
17:30	17:50	Juan Pablo ESCUDERO	Wiremesh grating with a porous matrix
17:50	18:10	Adrien GUTHAPFEL	Phase Gradient Metamaterials designs using stacked layers of perforated foams
19:00	21:00	(Forever) Young Acousticians' gathering	Included for students and PhD candidates
			Brasserie

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Thu 19.nov.2026

SESSION		HOMOGENISATION TECHNIQUES	
09:00	09:45	Claude BOUTIN	Vibrations and vibroacoustics of complex mechanical systems - Homogenization and experiments
09:45	10:30	Rodolfo VENEGAS	Thermo-aero-acoustics of poro-elastic media
10:30	11:00	Break	
11:00	11:20	Claudio C. PARRA	Effective dynamic parameters of permeable materials composed of spinning components
11:20	11:40	Cristóbal G. SANTOS	Sound propagation in rigid-frame porous media with a macroscopically induced background flow
11:40	12:00	Fabrizio R. OYARCE	A multiscale parametric study of poroelastic properties of wood
12:00	12:20	Tomasz ZIELINSKI	Sound absorption by a layer with narrow channels coupled by elastic plates inside periodic cells
12:20	12:40	Cong Truc NGUYEN	Acoustic simulation of thin-membrane foams using permeo-elastic theory
12:40	14:30	Lunch	
SESSION		NUMERICAL METHODS	
14:30	15:15	Olivier DAZEL	From TMM to more advanced discretization schemes: 40 years of numerical techniques for porous materials
15:15	15:35	Quy Dong TO	Computation of acoustical properties of porous materials from the microstructure images using Fourier Transform
15:35	15:55	Bart VAN DAMME	Homogenized stiffness properties of open porous media with fluid saturation
15:55	16:15	Mathieu GABORIT	Measuring Kelvin cells : mechanical properties and waves
16:15	16:45	Break	
16:45	17:05	Mads HERRING JENSEN	Comparison and validation of time and frequency domain anisotropic porous material models
17:05	17:25	Matthias COSNEFROY	Field-aware impedance averaging for (non-)locally-reacting absorbers in non-diffuse rooms
17:25	17:45	Mustapha SADOUKI	High-frequency absorption-based inverse characterization of non-acoustic parameters in rigid porous materials
17:45	18:05	Monica BALLESTEROS VILLARREAL	Parameter study to balance sound absorption and airborne sound insulation under thickness constraints for layered stone wool
19:30	22:30	Gala dinner	included
			Restaurant

Fri 20.nov.2026

SESSION		MANUFACTURING AND APPLICATIONS	
09:00	09:45	Mathieu GONTIER & Matthias DICKERT	Mass/industry production: how manufacturing process and chemical design steer the acoustic performance of poro-elastic materials
09:45	10:30	Sandrine MARCEAU	Durability of bio-based construction materials: Key challenges, evaluation methods and long-term performance
10:30	11:00	Break	
11:00	11:20	Thomas SCHATZMAYR WELP SA	Influence of production process on the fiber orientation of hemp woolls
11:20	11:40	Lucien MUTEL	Modelling and optimising the sound absorption of fire-proofed bio-based wool panels
11:40	12:00	Denilson RAMOS	Modelling thermal acoustic behaviour of sustainable Posidonia oceanica fibres: porosity as unifying parameter
12:00	12:20	Manasi KSHIRSAGAR	Characterisation of flat and moulded sound package materials using Biot's properties analytical study
12:20	13:30	Lunch	
13:30	15:00	Panel discussion	
15:00	15:15	Closing & next edition venue + coffee	
15:15	18:30	Lab visits	
20:00	22:00	Farewell dinner	Charged individually
			Restaurant

SAPeM 2026

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Marne-la-Vallée, France

ALL WEEK

SESSION	POSTERS		
Posters will be exposed throughout the conference with two special highlight periods:	Vincent FRANÇOIS-CARRET	Robust resonance-based characterization of porous materials	Exhibition space (Salle Polyvalente)
	Krzysztof NERING	Beyond dynamic stiffness: Extending ISO 9052-1 testing for vibroacoustic material characterisation	Exhibition space (Salle Polyvalente)
	Elio DI GIULIO	Development of modular sound-absorbing systems based on elementary acoustic building blocks	Exhibition space (Salle Polyvalente)
Mon 16.nov.2026 17:30-18:20	Jan Wouter SMITS	Extended-reaction FDTD modeling of a small reverberation room with porous materials	Exhibition space (Salle Polyvalente)
Tue 17.nov.2026 12:20-14:30	Alexia PELTIER	Optimization of acoustic performance of fire-retardant bio-based insulation panels with reduced carbon footprint	Exhibition space (Salle Polyvalente)
	Albert PRINN	Finite element-based estimation of angle-dependent impedance	Exhibition space (Salle Polyvalente)
	William JOHNSTON	Applicability of microperforated panel theory to additively manufactured bead-gap membrane stacks	Exhibition space (Salle Polyvalente)
	Nils WEHEN	On the influence of different numerical fitting scenarios for material parameter determination in porous media	Exhibition space (Salle Polyvalente)
	Philippe GLÉ	Investigating the effect of soil properties on the acoustic behaviour of earthen materials	Exhibition space (Salle Polyvalente)
	François-Xavier BÉCOT	Acoustic porous materials, a brief history, edit 2026	Exhibition space (Salle Polyvalente)
	Ravi Chandra Murthy SAMPATHIRAO	Meso-level characterization of effective visco-elastic properties of honeycomb sandwich structures	Exhibition space (Salle Polyvalente)
	Quang Vu TRAN	Three-dimensional locally heterogeneous fibrous media: Representative elementary volume and calculation of acoustic properties	Exhibition space (Salle Polyvalente)
	Mai Phuong QUYEN	A composite-based approach for acoustic modeling of polydisperse fibrous materials	Exhibition space (Salle Polyvalente)
	Cong Truc NGUYEN	High-porosity polydisperse solid foams: Microstructure characterization and acoustic simulation	Exhibition space (Salle Polyvalente)

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LABORATOIRE D'ÉCOLOGIE ET
D'ÉNERGÉTIQUE DES
CONSTRUCTIONS
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Fondation
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Architectured Metamaterials



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